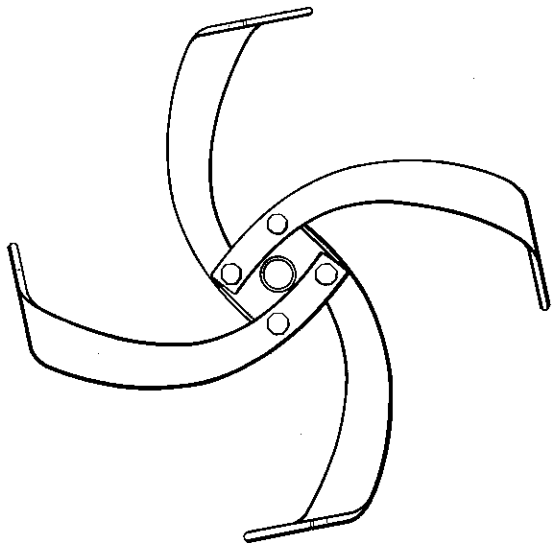
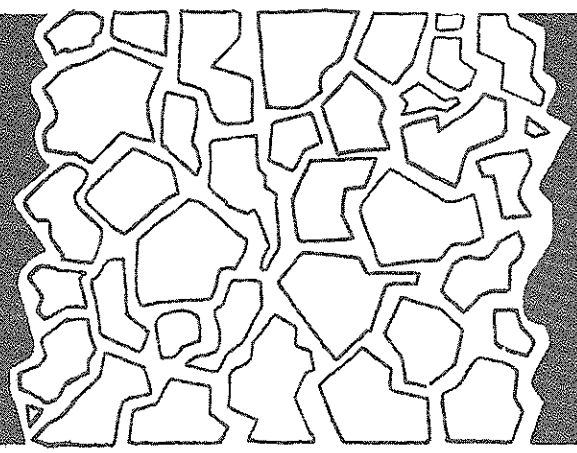
INSTRUCTIONS
& PARTS LIST

HOMELITE®

36" ROTARY TILLER





PART NO. 24666

Safety...

- Read the Owner's Manual carefully. Be thoroughly familiar with the controls and proper use of the equipment.
- Never allow children to operate the unit.
- Keep the area of operation clear of all persons, particularly small children, and pets.
- Thoroughly inspect the area where the equipment is to be used and remove all stones, wire, bones and other foreign objects.
- Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.
- Check fuel before starting engine. Do not fill gasoline tank indoors, when engine is running, or while engine is still hot. Wipe off any spilled gasoline before starting engine.
- Disengage power to attachments when transporting or not in use.
- Do not change engine governor settings or overspeed engine.
- Do not put hands or feet near or under rotating parts.
- Stop tines when crossing gravel drive, walks or roads.
- Vehicle and attachments should be stopped and inspected for damage after striking a foreign object and the damage should be repaired before restarting and operating the equipment.
- If the equipment should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.

TINE WARRANTY

HOMELITE warrants rotary tiller tines against breakage for the period not to exceed the normal life of the rotary tiller: and will replace broken tines directly to the customer at no charge, provided broken tines are returned prepaid to the nearest HOMELITE district office.

HOMELITE
a division of Textron Inc.

HOMELITE®
A textron DIVISION, PORT CHESTER, N.Y. 10573

36" ROTARY TILLER

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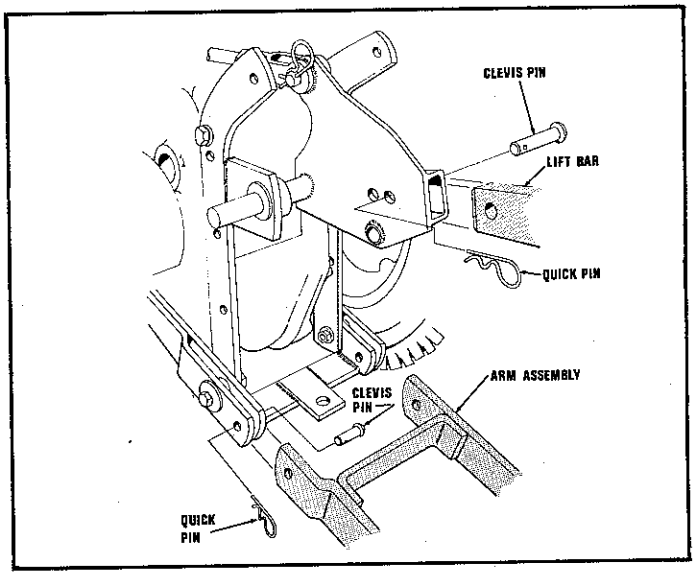
ASSEMBLY INSTRUCTIONS

1. Position tiller at the rear of the tractor. Place the lift lever in the fully back position. Put the tiller lift assembly into the tractor lift assembly and secure with clevis pin and quick pin.



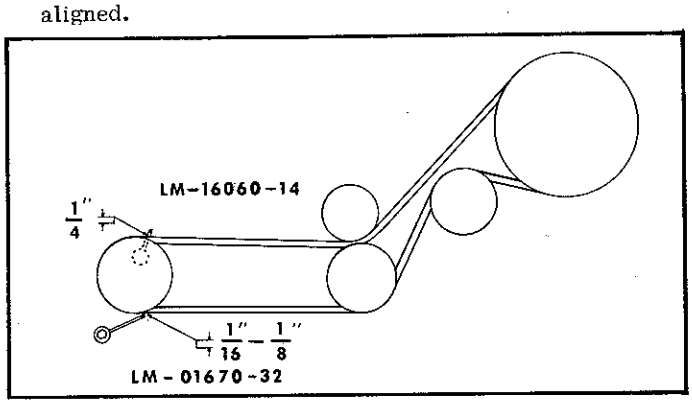
2. Place tractor lift lever in forward position. Secure the tiller frame assembly to tractor with the two clevis pins and two quick pins supplied.

3. Slide idler arm assembly onto rear lift shaft.

4. Attach lower end of idler arm assembly to hitch member with clevis pin and quick pin.

5. Assemble pulley to power take-off (PTO) shaft on bevel gear housing. Using existing cap screw, washers, and nut, secure belt stop to tractor.

6. Position belt on pulleys and check that the belt is seated properly in the pulleys, and that the pulleys are properly aligned.



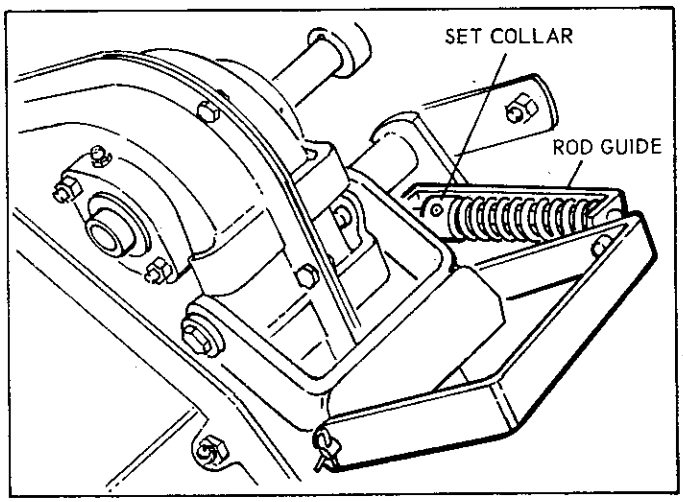
LUBRICATION

There are grease fittings on each housing bearing and two 90° grease fittings are on the right hand side of the housing. These fittings should be lubricated every three hours of operation. Use a good grade of general purpose automotive type grease applied with a standard grease gun. (Fittings should be wiped clean before applying any grease.) Also apply a few drops of lubricating oil to the moving linkages of the tiller drive assembly occasionally.

BELT ADJUSTMENT

The belt that transmits power from the bevel gear box to the tiller drive shaft is designed to provide long and satisfactory service. Because of the special design of this belt, it is urged that it is only replaced with genuine replacement ordered from your dealer.

Adjustment of belt tension is controlled by the set collar on the rod guide assembly. The tension should be correct when there is about 1-1/4" clearance between the collar and the bracket of the rod guide assembly with the tiller clutch lever engaged. To increase the tension, release the tiller clutch lever and loosen the set screw in the collar. Slide the collar up toward the spring and retighten the set screw. Check the tension by engaging the tiller clutch lever. Avoid excessive tension as it will cause premature belt failure.



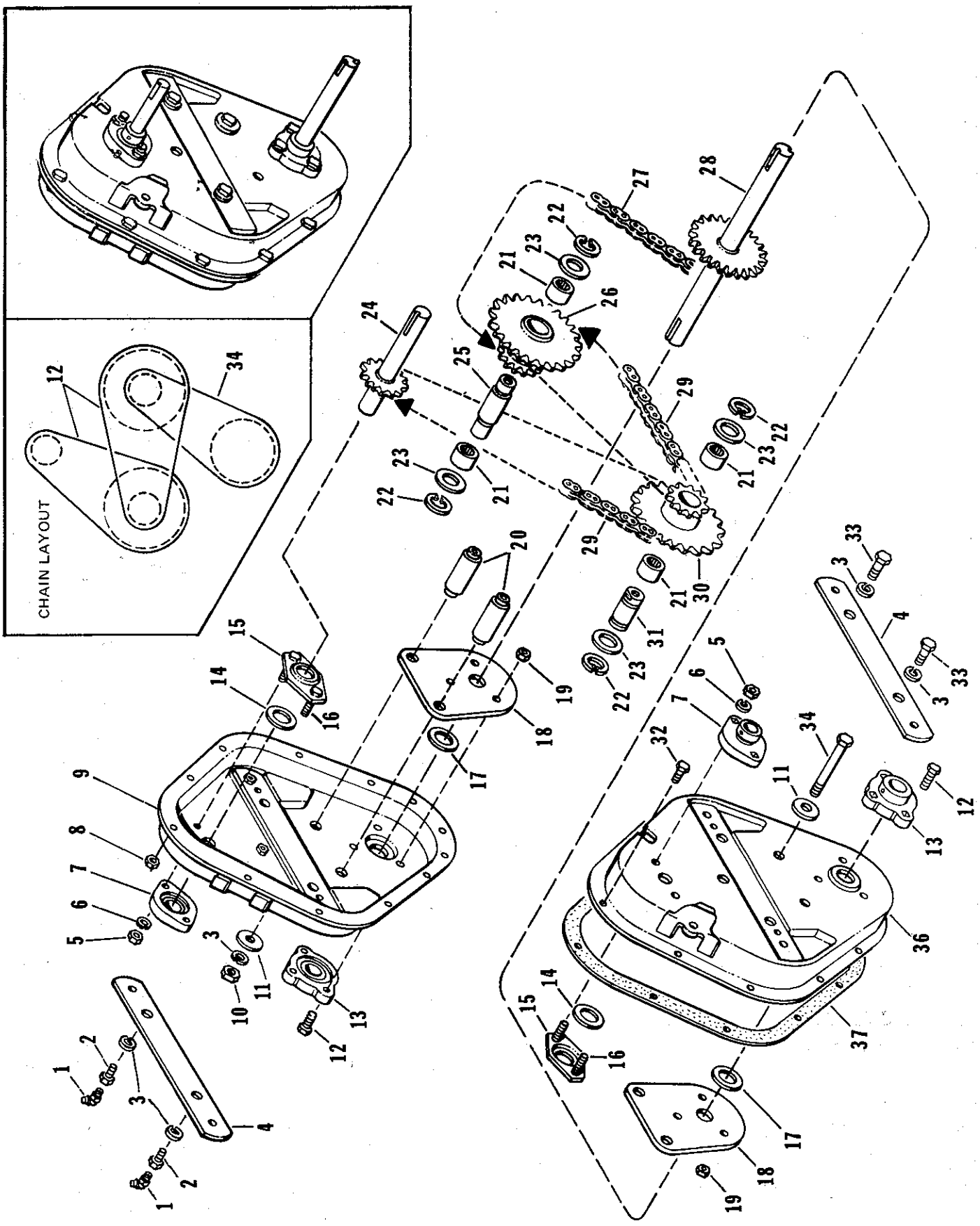
Before starting the tractor engine, place the tiller clutch lever in the disengaged position, and raise the tiller above the surface of the ground. With the tractor engine running, engage the tiller clutch and lower the tiller into contact with the ground. As the tiller works into the soil, slowly release the tractor clutch and move ahead. When coming to the end of a row, raise the tiller free of the ground before turning around.

Effective operation of the tiller will depend in a large degree upon the operator. For example; when intending to till a sod area into a seed bed for gardening, it obviously will require several passes over the same path to break the sod and ground into fine particles suitable for a seed bed. Depending on the nature of the soil, it will be desirable to altar the depth settings for the tiller on succeeding passes until the desired depth is reached. When tilling in soil that has been previously worked, it may be possible to till to the desired depth from the start.

The depth of tilling is regulated by the ground speed of the tractor. The slower the ground speed the deeper the tilling action.

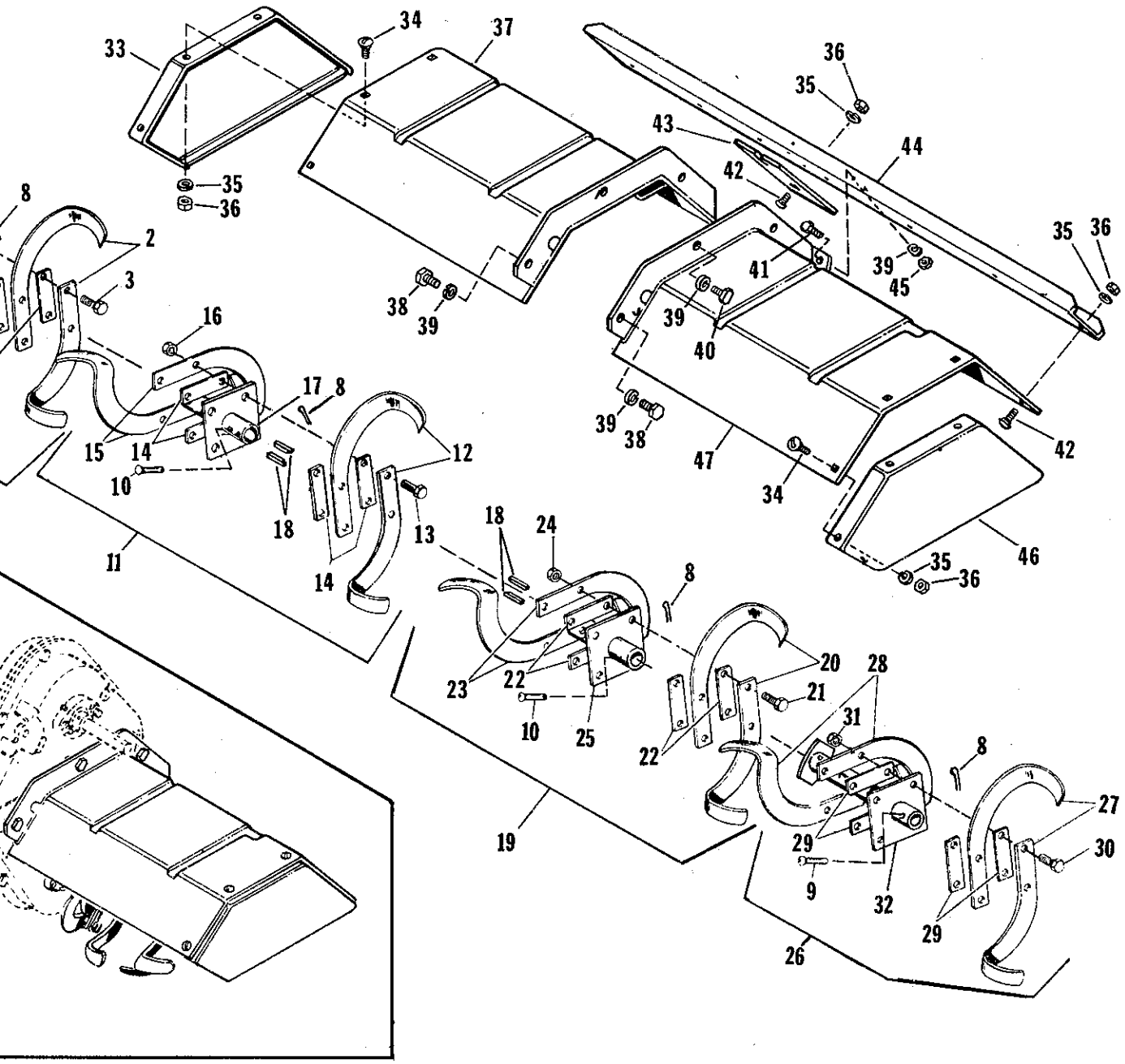
NOTE: When using the rotary tiller on a tractor equipped with the power lift attachment, the power lift attachment must be in the float position. Operating the tiller in the hold position will cause the tiller tines to propel the tractor at a dangerous speed.

HOUSING GROUP



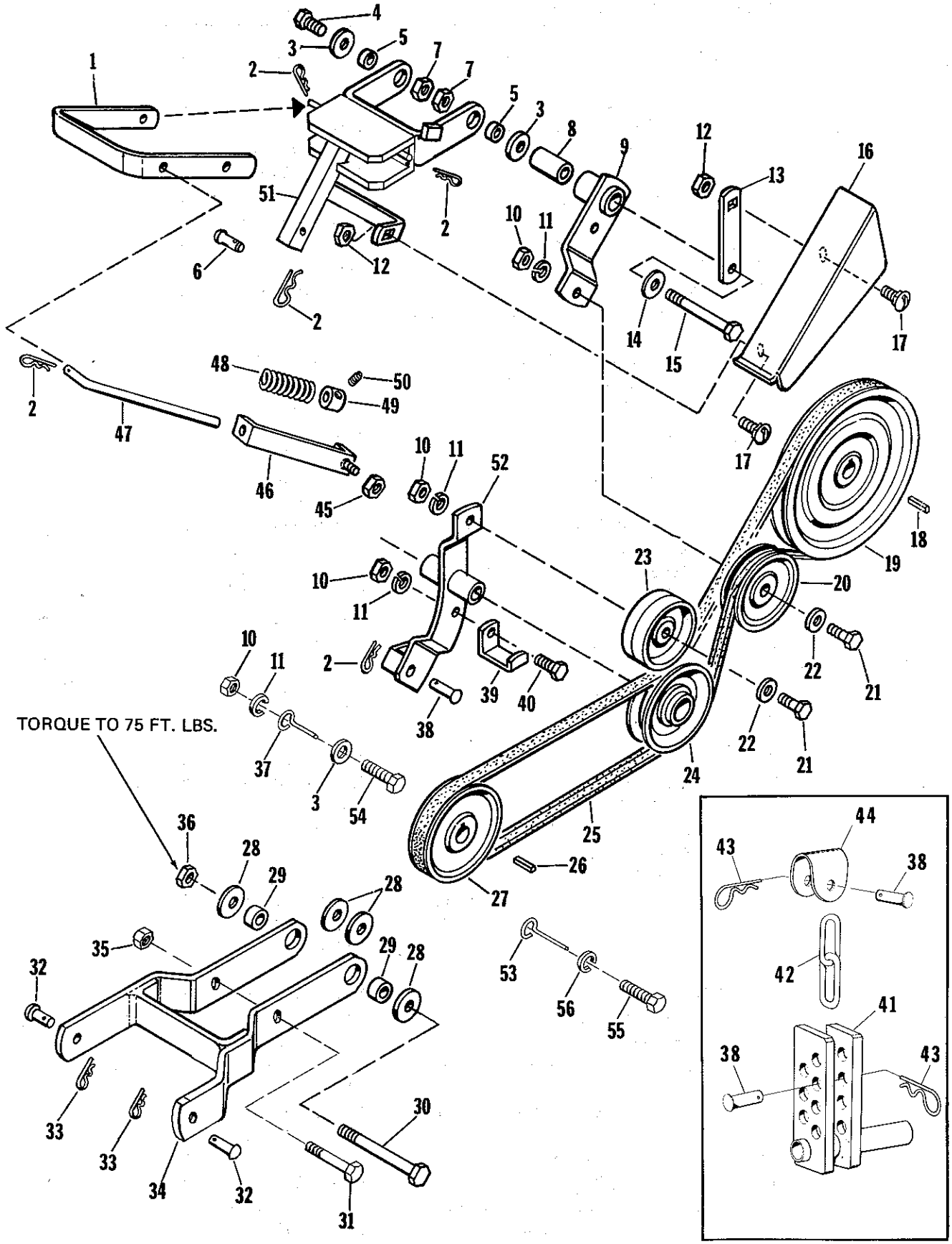
No.	Description	Part No.	Qty.
1	FITTING-grease	LM-09150-19	2
2	BOLT-(R. H. side)	LM-01051-32	2
3	WASHER-lock, 1/2	LM-09169-66	5
4	SIDE BAR	LM-01053-20	2
5	NUT-full hex, 5/16-18	LM-09173-72	4
6	WASHER-lock, 5/16	LM-09173-56	4
7	BEARING	LM-01053-11	2
8	LOCKNUT-full hex, 5/16-18	LM-09233-62	14
9	HALF CASE ASSEMBLY (R. H.)	LM-01053-66	1
10	NUT-full hex, 1/2-13	LM-09169-51	1
11	WASHER-flat, 1/2	LM-09184-31	2
12	SCREW-thread forming, 3/8-16 x 1-1/2	LM-07150-91	6
13	BEARING	LM-01053-09	2
14	SEAL	LM-01053-65	2
15	UPPER BEARING PLATE ASSEMBLY	LM-01053-13	2
	Includes: (each assembly)		
16	SCREW-hex cap, 5/16-18 x 1-1/2	LM-09212-21	2
17	SEAL	LM-01053-57	2
18	PLATE-reinforcing	LM-01053-07	2
19	NUT-hex lock, jam, 3/8-16	LM-09287-31	6
20	SPACER	LM-01053-60	2
21	BEARING-roller	LM-01051-95	4
22	RING-retaining	LM-01051-94	4
23	WASHER	LM-82810-14	4
24	PULLEY SHAFT ASSEMBLY	LM-01052-98	1
25	SPACER-intermediate	LM-01051-92	1
26	SPROCKET ASSEMBLY	LM-01053-01	1
27	CHAIN	LM-01053-45	1
28	TINE SHAFT ASSEMBLY	LM-01052-97	1
29	CHAIN	LM-01053-36	2
30	SPROCKET ASSEMBLY	LM-01052-91	1
31	SPACER-intermediate	LM-01052-92	1
32	SCREW-hex cap, 5/16-18 x 5/8	LM-09193-18	14
33	SCREW-hex cap, (L. H.) 1/2-20 x 1-1/4	LM-07060-22	2
34	SCREW-hex cap, 1/2-13 x 4	LM-07050-68	1
35	HALF CASE ASSEMBLY (L. H.)	LM-01053-67	1
36	GASKET	LM-01053-73	1
	GREASE CAP	LM-01053-63	2

DEFLECTOR & TINE GROUP



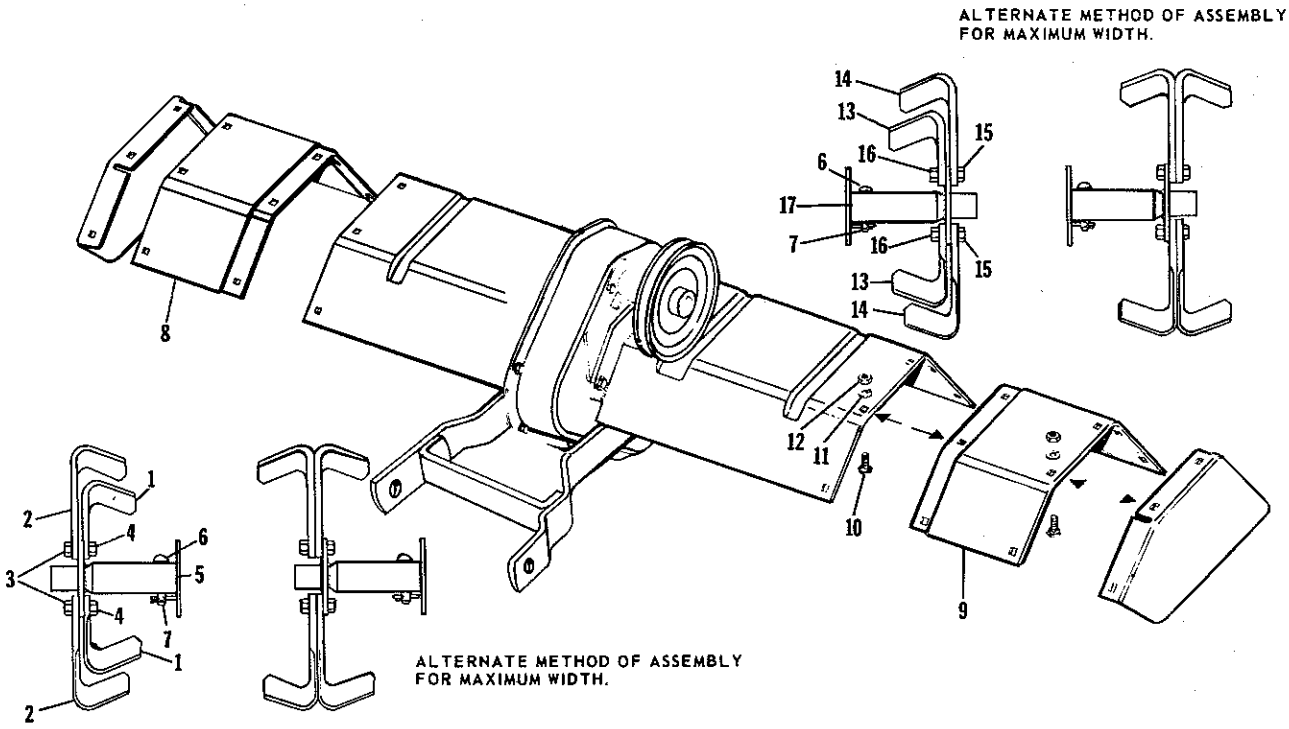
No.	Description	Part No.	Qty.
1	BLADE ASSEMBLY (R. H.)	LM-01053-90	1
	Includes:		
2	TINE-blade (left hand)	LM-01053-75	2
3	SCREW-hex cap, 7/16-20 x 2	LM-07150-95	4
4	SPACER	LM-01053-77	4
5	TINE BLADE (right hand)	LM-01053-76	2
6	NUT-hex lock, 7/16-20	LM-09148-80	4
7	PLATE-tine	LM-01053-84	1
8	PIN-cotter, 1/8 x 3/4	LM-09184-51	4
9	PIN	LM-01180-53	2
10	PIN-inner	LM-01052-49	2
11	BLADE ASSEMBLY-inner (R. H.)	LM-01053-87	1
	Includes:		
12	TINE-blade (left hand)	LM-01053-75	2
13	SCREW-hex cap, 7/16-20 x 2	LM-07150-95	4
14	SPACER	LM-01053-77	4
15	TINE-blade (right hand)	LM-01053-76	2
16	NUT-hex lock, 7/16-20	LM-09148-80	4
17	HUB-attachment	LM-01053-81	1
18	KEY	LM-01053-37	4
19	BLADE ASSEMBLY-inner (L. H.)	LM-01053-88	1
	Includes:		
20	TINE-blade (left hand)	LM-01053-75	2
21	SCREW-hex cap, 7/16-20 x 2	LM-07150-95	4
22	SPACER	LM-01053-77	4
23	TINE-blade (right hand)	LM-01053-76	2
24	NUT-hex lock, 7/16-20	LM-09148-80	4
25	HUB-attachment	LM-01053-81	1
26	BLADE ASSEMBLY (L. H.)	LM-01053-89	1
	Includes:		
27	TINE-blade (left hand)	LM-01053-75	2
28	TINE-blade (right hand)	LM-01053-76	2
29	SPACER	LM-01053-77	4
30	SCREW-hex cap, 7/16-20 x 2	LM-07150-95	4
31	NUT-hex lock	LM-09148-80	4
32	PLATE-tine	LM-01053-84	1
33	PLATE-end, deflector (right hand)	LM-01052-74	1
34	BOLT-carriage, 5/16-18 x 1/2	LM-07030-11	8
35	WASHER-lock, 5/16	LM-09173-56	15
36	NUT-hex, 5/16-18	LM-09173-72	15
37	DEFLECTOR-right hand	LM-01053-69	1
38	SCREW-hex cap, 3/8-16 x 1	LM-09212-10	5
39	WASHER-lock, 3/8	LM-09169-65	8
40	SCREW-hex cap, 3/8-16 x 5/8	LM-07150-24	1
41	SCREW-hex cap, 3/8-16 x 7/8	LM-09193-57	2
42	BOLT-carriage, 5/16-18 x 3/4	LM-09194-14	7
43	SHIELD	LM-01053-54	1
44	CHANNEL-reinforced	LM-01053-30	1
45	NUT-hex, 3/8-16	LM-09169-50	2
46	PLATE-end, deflector(left hand)	LM-01052-73	1
47	DEFLECTOR-left hand	LM-01053-70	1
	DECAL-safety	LM-01030-31	1

TILLER DRIVE GROUP



No.	Description	Part No.	Qty.
1	HANDLE-clutch	LM-01053-03	1
2	CLIP-spring	LM-01067-87	5
3	WASHER-flat, 3/8	LM-09173-78	3
4	SCREW-hex cap, 7/16-14 x 1-1/4	LM-09206-77	1
5	SPACER	LM-01053-46	2
6	PIN	LM-01180-53	1
7	NUT-hex lock, 7/16-14	LM-07175-19	2
8	SPACER	LM-01053-39	1
9	LEVER-clutch	LM-01052-95	1
10	NUT-hex, 3/8-16	LM-09169-50	4
11	WASHER-lock, 3/8	LM-09169-65	4
12	NUT-whiz lock, 5/16-18	LM-09257-63	2
13	SUPPORT-rear belt guard	LM-01053-59	1
14	WASHER-flat, 7/16	LM-09184-30	2
15	SCREW-hex cap, 7/16-14 x 3-1/2	LM-07150-93	1
16	GUARD-belt	LM-01053-26	1
17	BOLT-carriage, 5/16-18 x 1/2	LM-07030-11	2
18	KEY	LM-01574-27	1
19	PULLEY	LM-01053-02	1
20	PULLEY	LM-01053-06	1
21	SCREW-hex cap, 3/8-16 x 1-1/4	LM-09174-00	2
22	WASHER-flat, 5/16	LM-09176-42	2
23	PULLEY-idler	LM-01640-83	1
24	PULLEY-idler	LM-01053-80	1
25	BELT-V	LM-01053-40	1
26	KEY	LM-80610-81	1
27	PULLEY	LM-01642-02	1
28	WASHER-flat, 1/2	LM-09184-31	4
29	SPACER	LM-01053-86	2
30	SCREW-hex cap, 1/2-13 x 5	LM-07150-97	1
31	SCREW-hex cap, 3/8-16 x 4-1/2	LM-09220-48	1
32	PIN	LM-01550-37	2
33	CLIP-spring	LM-01067-88	2
34	FRAME	LM-16074-26	1
35	NUT-hex lock, 3/8-16	LM-09234-28	1
36	NUT-hex lock, 1/2-13	LM-07175-18	1
37	STOP-belt	LM-01670-32	1
38	PIN	LM-01563-06	3
39	GUARD-belt	LM-01053-51	1
40	SCREW-hex cap, 3/8-16 x 7/8	LM-09193-57	1
41	BRACKET-depth limit	LM-01726-39	1
42	CHAIN	LM-01070-31	1
43	CLIP-spring	LM-81610-45	2
44	CLIP-chain	LM-01082-00	1
45	NUT-hex lock, 5/16-18	LM-09233-62	1
46	GUIDE-rod	LM-01584-06	1
47	ROD-clutch	LM-01053-43	1
48	SPRING	LM-81910-45	1
50	SCREW-set, 1/4-20 x 3/8	LM-09038-07	1
51	BAR-lift	LM-16074-25	1
52	IDLER-arm	LM-01053-22	1
53	STOP-belt	LM-16060-14	1
54	SCREW-hex, 3/8-16 x 1	LM-09077-31	1
55	SCREW-hex, 7/16-14 x 1-1/4	LM-09234-71	1
56	WASHER-lock, 7/16	LM-09181-99	1

TINE EXTENSION GROUP



No.	Description	Part No.	Qty.
	BLADE ASSEMBLY (L. H.)	LM-01052-22	1
	Includes:		
1	TINE-blade (left hand)	LM-81520-01	2
2	TINE-blade (right hand)	LM-81520-02	2
3	SCREW-hex cap, 7/16-20 x 1-1/4	LM-09204-88	4
4	NUT-hex lock, 7/16-20	LM-09148-80	4
5	PLATE ASSEMBLY-tine ext.	LM-01052-21	1
6	PIN	LM-01180-53	2
7	CLIP-spring	LM-81610-45	2
8	DEFLECTOR-extension(right hand)	LM-01052-75	1
9	DEFLECTOR-extension (left hand)	LM-01052-76	1
10	BOLT-carriage, 5/16-18 x 1/2	LM-09237-00	10
11	WASHER-lock, 5/16	LM-09173-56	10
12	NUT-hex, 5/16-18	LM-09173-72	10
	BLADE ASSEMBLY (R. H.)	LM-01052-23	1
	Includes:		
13	TINE-blade (left hand)	LM-81520-01	2
14	TINE-blade (right hand)	LM-81520-02	2
15	SCREW-hex cap, 7/16-20 x 1-1/4	LM-09204-88	4
16	NUT-hex lock, 7/16-20	LM-09148-80	4
17	PLATE ASSEMBLY-tine ext.	LM-01052-21	1

Part No.	Description	Qty.
LM 01030 31	Decal-safety	1
LM 01051 32	Bolt-(right hand side)	2
LM 01051 92	Spacer-intermediate	1
LM 01051 94	Ring-retaining	4
LM 01051 95	Bearing-roller	4
LM 01052 21	Plate Assembly	2
LM 01052 22	Blade Assembly (L. H.)	1
LM 01052 23	Blade Assembly (R. H.)	1
LM 01052 49	Pin-inner	2
LM 01052 73	Plate-deflector (L. H.)	1
LM 01052 74	Plate-deflector (R. H.)	1
LM 01052 75	Deflector Ext. (R. H.)	1
LM 01052 76	Deflector Ext. (L. H.)	1
LM 01052 91	Sprocket Assembly	1
LM 01052 92	Spacer-intermediate	1
LM 01052 95	Lever-clutch	1
LM 01052 97	Shaft Assembly-tine	1
LM 01052 98	Shaft-pulley	1
LM 01053 01	Sprocket Assembly	1
LM 01053 02	Pulley	1
LM 01053 03	Handle-clutch	1
LM 01053 06	Pulley	1
LM 01053 07	Plate-reinforcing	2
LM 01053 09	Bearing	2
LM 01053 11	Bearing	2
LM 01053 13	Plate Assembly	2
LM 01053 20	Bar-side	2
LM 01053 22	Arm Assembly-idler	1
LM 01053 26	Guard-belt	1
LM 01053 30	Channel Reinforcing	1
LM 01053 36	Chain	2
LM 01053 37	Key	4
LM 01053 39	Spacer	1
LM 01053 40	Belt-V, 12 hp.	1
LM 01053 43	Rod-clutch	1
LM 01053 45	Chain	1
LM 01053 46	Spacer	2
LM 01053 51	Guard -belt	1
LM 01053 54	Shield	1
LM 01053 57	Seal	2
LM 01053 59	Support-belt guard	1
LM 01053 60	Spacer	2
LM 01053 63	Grease Cap	2
LM 01053 65	Seal	2
LM 01053 66	Case-half (R. H.)	1
LM 01053 67	Case-half (L. H.)	1
LM 01053 69	Deflector- (R. H.)	1
LM 01053 70	Deflector Assembly (L. H.)	1
LM 01053 73	Gasket	1
LM 01053 75	Tine-blade (L. H.)	8
LM 01053 76	Tine-blade (R. H.)	8
LM 01053 77	Spacer	16
LM 01053 80	Pulley-idler	1
LM 01053 81	Hub-attach assembly	2
LM 01053 84	Plate Assembly-tine	2
LM 01053 86	Spacer	2
LM 01053 87	Blade Assembly (R. H.)	1
LM 01053 88	Blade Assembly (L. H.)	1
LM 01053 89	Blade Assembly (L. H.)	1
LM 01053 90	Blade Assembly (R. H.)	1
LM 01067 87	Clip-spring	5
LM 01067 88	Clip-hairpin	2
LM 01070 31	Chain	1

Part No.	Description	Qty.
LM 01082 00	Clip-chain	1
LM 01180 53	Pin-tine shaft	5
LM 01550 37	Pin-rd. hd.	2
LM 01563 06	Pin-rd. hd.	3
LM 01574 27	Key-parallel	1
LM 01584 06	Guide Assembly-rod	1
LM 01640 83	Pulley-idler	1
LM 01642 02	Pulley-P. T. O.	1
LM 01670 32	Stop-belt	1
LM 01726 39	Bracket Assembly	1
LM 09150 19	Fitting-grease	2
LM 16060 14	Stop-belt	1
LM 16074 25	Lift Bar Assembly	1
LM 16074 26	Frame Assembly	1
LM 80610 81	Key	1
LM 81520 01	Blade-tine (L. H.)	4
LM 81520 02	Blade-tine (R. H.)	4
LM 81610 45	Clip-spring	4
LM 81910 22	Collar-set	1
LM 81910 45	Spring	1
	FASTENING PARTS	
LM 07030 11	Bolt-carriage	10
LM 07050 68	1/2-13 x 4	1
LM 07060 22	1/2-20 x 1-1/4	2
LM 07150 24	3/8-16 x 5/8	1
LM 07150 91	3/8-16 x 1-1/2	6
LM 07150 93	7/16-14 x 3-1/2	1
LM 07150 95	7/16-20 x 2	16
LM 07150 97	1/2-13 x 5	1
LM 07175 18	Nut-hex, 1/2-13	1
LM 07175 19	Nut-hex, 7/16-14	2
LM 09038 07	1/4-20 x 3/8	1
LM 09077 31	3/8-16 x 1	1
LM 09148 80	Nut-hex cap	24
LM 09169 50	Nut-hex, 3/8-16	6
LM 09169 51	Nut-hex, 1/2-13	1
LM 09169 65	Washer-lock, 3/8	12
LM 09169 66	Washer-lock, 1/2	5
LM 09173 56	Washer-lock, 5/16	29
LM 09173 72	Nut-hex, 5/16-18	29
LM 09173 78	Washer-flat, 3/8	3
LM 09174 00	3/8-16 x 1-1/4	2
LM 09176 42	Washer-flat, 5/16	2
LM 09181 99	Washer-lock, 7/16	1
LM 09184 30	Washer-flat, 7/16	2
LM 09184 31	Washer-flat, 1/2	6
LM 09184 51	Pin-cotter, 1/8 x 3/4	4
LM 09193 18	5/16-18 x 5/8	14
LM 09193 57	3/8-16 x 7/8	1
LM 09194 14	Bolt-5/16-18 x 3/4	7
LM 09204 88	7/16-20 x 1-1/4	8
LM 09206 77	7/16-14 x 1-1/4	1
LM 09212 10	3/8-16 x 1	5
LM 09212 21	5/16-18 x 1-1/2	2
LM 09233 62	Nut-hex, 5/16-18	15
LM 09220 48	3/8-16 x 4-1/2	1
LM 09234 28	Nut-hex, 3/8-16	1
LM 09234 71	7/16-14 x 1-1/4	1
LM 09237 00	Bolt-5/16-18 x 1/2	10
LM 09257 63	Nut-5/16-18	2
LM 09287 31	Nut-hex, 3/8-16	6
LM 82810 14	Washer	4

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